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PATENT & TRADEMARK OFFICE

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
)
    Madhu Rao et al.   )   Examiner: Lin, Kelvin Y.
)
Application No.: 09/921,936   )   Art Unit: 2142
)
Filed: August 2, 2001   )
)
For: NEIGHBOR DISCOVERY USING)
     ADDRESS REGISTRATION   )
     PROTOCOL OVER ELMI   )
_____)

Commissioner for Patents
PO Box 1450
Alexandria, Virginia 22313-1450

DECLARATION OF PRIOR INVENTION IN THE UNITED STATES TO OVERCOME CITED PUBLICATION (37 C.F.R. §1.131)

Sir:

My name is Madhu Rao. I have been employed by Cisco Technology, Inc. of San Jose, California from May 25, 1999 through the present.

I am one of the inventors of the above-identified patent application that has been assigned to Cisco Technology, Inc. The declaration made herein is to establish a completion of the invention in the application in the United States at a date prior to December 6, 2000, which is the cited publication date of the paper entitled "Cisco Publication: Frame Relay ELMI Address Registration" by Cisco, posted on December 6, 2000 (the "Cisco Document").

I hereby declare that my invention was reduced to practice prior to December 6, 2000. Below stated are activities of myself and Cisco Technology, Inc. regarding the date on which the invention was reduced to practice.

My invention is embodied in a Cisco router product that implements the ELMI-AR protocol. Prior to December 6, 2000, I developed and tested a working version of the

product comprising my invention. Thus, my invention was reduced to practice prior to December 6, 2000.

Exhibit 1 attached herewith is a copy of screen images from debug sessions that capture the ELMI-AR protocol data in a running session that illustrates aspects of the invention embodied within the product. The dates in Exhibit 1 have been redacted. As evidenced by the screen image, the Cisco router product supporting the ELMI-AR protocol was completed and operational prior to December 6, 2000.

Based on the above description and as evidenced by the attached exhibit, the reduction to practice of the subject matter described in the present application was prior to the December 6, 2000 publication date of the Cisco Document.

As the below-signed invention, I, Madhu Rao, hereby declare that all statements herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements are made knowing that willful false statements and the like are punishable by fine or imprisonment, or both under §1001 of Title 18 of United States Code, and such willful or false statements may jeopardize the validity of the application or any patent issuing therefrom.

Respectfully submitted

Date: 11-22-2005

Signature

Full legal name: Madhu Rao
Citizenship: USA
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EXHIBIT 1

```
bot                TN   Cisco           IGX 8430  9.3.y4  ████████████████
     FrontCard  BackCard                        FrontCard  BackCard
     Type  Rev  Type     Rev  Status            Type  Rev  Type      Rev  Status
1    NPM   BTN                Standby      9  Empty
2    NPM   EMS                Active      10  Empty
3    Empty universal backplane           11  Empty
4    UXM   BBE  T3       AA   Active      12  Empty
5    UFMU  AD09 HSSI     AA   Standby     13  Empty
6    UFMU  BD09 HSSI     AA   Active      14  Empty
7    FRM   KT07 FRI-E1   AB   Mismatch    15  Empty
8    UFM   ARN  E1D      AB   Active      16  Empty

Last Command: dspcds
```

```
bot              TN    Cisco         IGX 8430  9.3.y4  �

  Port Neighbor Discovery
  Port    Enable    State        IpAddress         IfIndex
  5.1     Yes       ACTIVE       2.2.2.2           10
  5.2     Yes       ACTIVE       0.0.0.0           0
  5.3     No        INACTIVE     0.0.0.0           0
  5.4     No        INACTIVE     0.0.0.0           0

  Last Command: dspnebdisc
```

```
bot              TN    Cisco          IGX 8430   9.3.y4   ████████████████

Port:         5.1              [ACTIVE ] Secondary
Interface:    HSSI    DCE                Configured Clock:    1024 Kbps
Clocking:     Normal                     Measured Rx Clock:   1024 Kbps
Neighbor IP Add: 2.2.2.2         Neighbor IfIndex: 10
Port ID                     0    Min Flags / Frames          1
Port Queue Depth        65535    OAM Pkt Threshold           3 pkts
ECN Queue Threshold     65535    T391 Link Intg Timer       10 sec
DE Threshold             100 %   N391 Full Status Poll       6 cyl
Signalling Protocol   Cisco LMI -E   EFCI Mapping Enabled    No
Asynchronous Status        No    CLLM Enabled/Tx Timer   No/  0 msec
T392 Polling Verif Timer   15    IDE to DE Mapping          Yes
N392 Error Threshold        3    Interface Control Template
N393 Monitored Events Count 4        Lead    CA
Communicate Priority       No        State   ON
Upper/Lower RNR Thresh  75%/ 25%   Neighbor Discovery      Enable

Last Command: dspport 5.1
```

```
bot          TN   Cisco            IGX 8430  9.3.y4  ████████████████

Port:      5.1              [ACTIVE ] Secondary
Interface: HSSI    DCE                Configured Clock:    1024 Kbps
Clocking:  Normal                     Measured Rx Clock:   1024 Kbps
Neighbor IP Add: 2.2.2.2          Neighbor IfIndex: 10
Port ID                      0    Min Flags / Frames         1
Port Queue Depth          65535    OAM Pkt Threshold          3 pkts
ECN Queue Threshold       65535    T391 Link Intg Timer      10 sec
DE Threshold              100 %    N391 Full Status Poll      6 cyl
Signalling Protocol   Cisco LMI -E  EFCI Mapping Enabled      No
Asynchronous Status         No    CLLM Enabled/Tx Timer   No/  0 msec
T392 Polling Verif Timer    15    IDE to DE Mapping        Yes
N392 Error Threshold         3    Interface Control Template
N393 Monitored Events Count  4       Lead    CA
Communicate Priority        No       State   ON
Upper/Lower RNR Thresh  75%/ 25%   Neighbor Discovery     Disable


Last Command: cnfport 5.1 DCE 1024 NORMAL 0 65535 65535 100 s N 15 3 4 N 75 25 3  N N Y 1
N
```

```
elmi3600# show frame-realy qos-autosense

ELMI information for interface Hssi1/0

IP Address used for Address Registration:2.2.2.2 My Ifindex:10 ELMI AR Status:Enabled
 Connected to switch:SWITCH   Platform:IGX   Vendor:CISCO

ELMI AR Status:Enabled

IP Address used by switch for address registration:192.0.0.0 Ifindex:5000000
           (Time elapsed since last update 00:14:09)
```

```
elmi3600# show frame-realy qos-autosense

ELMI information for interface Hssi1/0

IP Address used for Address Registration:2.2.2.2 My Ifindex:10 ELMI AR Status:Enabled
 Connected to switch:SWITCH   Platform:IGX   Vendor:CISCO

ELMI AR Status:Enabled

IP Address used by switch for address registration:172.28.148.112 Ifindex:5000000
              (Time elapsed since last update 00:00:40)
```

```
elmi3600#show frame-relay qos-autosense

ELMI information for interface Hssi1/0

IP Address used for Address Registration:2.2.2.2 My Ifindex:10 ELMI AR Status:Enabled
 Connected to switch:SWITCH   Platform:IGX   Vendor:CISCO

ELMI AR Status:Disabled

IP Address used by switch for address registration:0.0.0.0 Ifindex:0
              (Time elapsed since last update 00:01:46)
```

```
elmi3600# conf t

elmi3600(config)# interface serial or hssi 2/1

elmi3600(config-if) no frame-relay address-reg enable
```